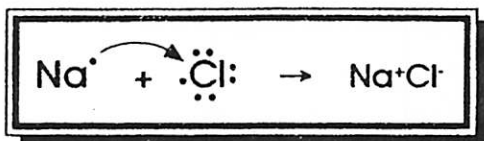


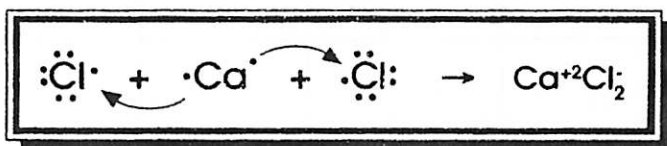
IONIC BONDING

Name _____

Ionic bonding occurs when a metal transfers one or more electrons to a nonmetal in an effort to attain a stable octet of electrons. For example, the transfer of an electron from sodium to chlorine can be depicted by a Lewis dot diagram.



Calcium would need two chlorine atoms to get rid of its two valence electrons.



Show the transfer of electrons in the following combinations.

1. K + F

2. Mg + I

3. Be + S

4. Na + O

5. Al + Br

Complete the following table:

Element Symbol	Number of Protons	Number of Electrons	Number of Core Electrons	Number of Valence Electrons	Number of Electrons Needed to Reach an Octet	Symbol and Charge of Ion
Mg						
						N^{3-}
	11					
F						
Rb						
		38				
Se						
						Ca^{2+}
	13					
Br						